

What is Claimed is:

1. A tide clock comprising:
 - a receiver in communication with a global positioning system and adapted to receive global positioning coordinates;
 - 5 a memory having at least one algorithm for calculating a tidal occurrence, the algorithm including terms related to global positioning coordinates; and,
 - a processor in communication with the memory and operable to access the global positioning coordinates and the at least one algorithm to calculate
 - 10 a tidal occurrence at a predetermined location related to the global positioning coordinates.
2. A tide clock according to claim 1 further comprising the receiver being operable to automatically obtain global positioning coordinates from a global
- 15 positioning system.
3. A tide clock according to claim 1 further comprising the memory having a plurality of algorithms stored therein.
- 20 4. A tide clock according to claim 1 further comprising a display in communication with the processor and adapted to display the calculated time of the tidal occurrence.

5. A tide clock according to claim 1 comprising the processor being operable to select an algorithm from the memory based on the global positioning coordinates obtained from the global positioning system.

5 6. A tide clock according to claim 1 wherein the processor is in communication with a data base and operable to acquire at least one algorithm from the data base.

7. A tide clock according to claim 6 wherein the data base is remote
10 from the tide clock.

8. A tide clock according to claim 1 further comprising a data input apparatus and adapted to input global positioning data.

15 9. A tide clock according to claim 1 further comprising the data input apparatus operable by a user to manually input global positioning data.